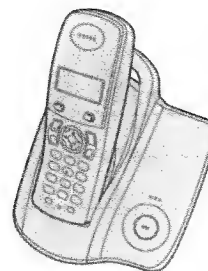


Panasonic

Operating Instructions

Digital Cordless Phone

Model No. **KX-TCD200HK**



Hotline Tel. No.: 2313 0666

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This unit is Caller ID compatible. To display the caller's phone number, you must subscribe to Caller ID service.

Charge the batteries for about 7 hours before initial use.

Please read these operating instructions before using the unit and save them for future reference.

Introduction

Thank you for purchasing a new Panasonic digital cordless phone.

For your future reference

Keep original receipt and guarantee card to assist with any repair under warranty.

Serial No. (found on the bottom of the base unit)

Date of purchase

Name and address of dealer

Note:

- In the event of problems, you should contact your equipment supplier in the first instance.

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Accessory information

Included accessories

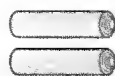
AC adaptor
PQLV19E



Telephone line cord



Rechargeable batteries
AAA (R03) size
HHR-4EPT



Handset cover



Operating instructions



Additional/replacement accessories

Model No.	Description
KX-TCA120HK	Additional Digital Cordless Handset
KX-A272	DECT repeater

Note:

- When replacing the batteries, use only 2 rechargeable AAA-size nickel metal hydride (Ni-MH).

Important information

General

- Use only the AC adaptor included with this product, noted on page 4.
- Do not connect the AC adaptor to any AC outlet other than a standard 220–240 V AC outlet.
- This product is unable to make calls when:
 - The portable handset battery(ies) need recharging or have failed.
 - There is a power failure.
 - The key lock feature is turned on.
 - The call bar feature is turned on (only phone numbers stored in the unit as emergency numbers can be called).
- Do not open the base unit or handset other than to replace the battery(ies).
- This product should not be used near emergency/intensive care medical equipment and should not be used by people with pacemakers.
- Care should be taken that objects do not fall onto, and liquids are not spilled into, the unit. Do not subject this product to excessive smoke, dust, mechanical vibration or shock.

Environment

- Do not use this product near water.
- This product should be kept away from heat sources such as radiators, cookers, etc. It should also not be placed in rooms where the temperature is less than 5 °C or greater than 40 °C.
- The AC adaptor is used as the main disconnect device. Ensure that the AC outlet is installed near the unit and is easily accessible.

Warning:

- To prevent the risk of electrical shock, do not expose this product to rain or any other type of moisture.
- Unplug this unit from power outlets if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised service centre.

Location

- For maximum distance and noise-free operation, place your base unit:
 - Away from electrical appliances such as TVs, radios, personal computers or other phones.
 - In a convenient, high and central location.

Battery caution

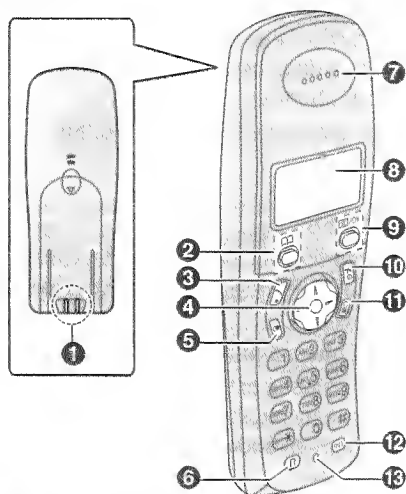
- We recommend using the battery(ies) noted on page 4. **Use only rechargeable battery(ies).**
- Do not mix old and new batteries.
- Do not dispose of the battery(ies) in a fire, as they may explode. Check local waste management codes for special disposal instructions.
- Do not open or mutilate the battery(ies). Released electrolyte from the battery(ies) is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
- Exercise care when handling the battery(ies). Do not allow conductive materials such as rings, bracelets or keys to touch the battery(ies), otherwise a short circuit may cause the battery(ies) and/or the conductive material to overheat and cause burns.
- Charge the battery(ies) in accordance with the information provided in these operating instructions.

- Only use the included base unit (or charger) to charge the battery(ies). Do not tamper with the base unit (or charger). Failure to follow these instructions may cause the battery(ies) to swell or explode.

Controls and displays

Controls

Handset



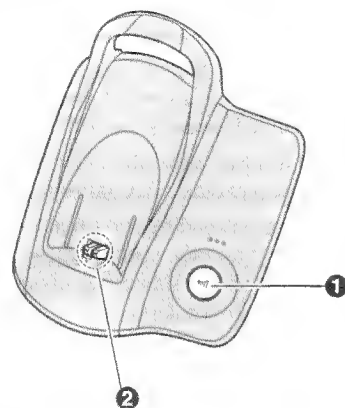
- 1 Charge contact
- 2 [☐] (Phonebook)
- 3 [↶] (Talk)
- 4 Navigator key
 - [▲][▼]: To search for the desired item in menus.
 - [▶]: To select the desired item or move the cursor to the right.
 - [◀]: To return to the previous screen or move the cursor to the left.
- 5 [⏮] (Redial/Pause)
- 6 [R] (Flash)
- 7 Receiver
- 8 Display

- 9 [≡/OK] (Menu/OK)
- 10 [⏻] (Off/Power)
- 11 [C/⊗] (Clear/Mute)
- 12 [INT] (Intercom)
- 13 Microphone

Note:

- Up to 3 menu items can be displayed at a time. To select a menu item not shown on the current page, scroll up or down by pressing the navigator key, [▲] or [▼], respectively.

Base unit



- 1 [⋈] (Page)
- 2 Charge contact

Displays

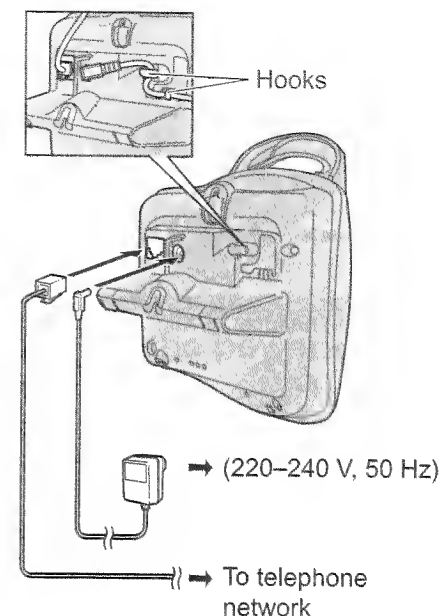
Display icons

Various icons appear on the handset display to indicate the current status of the unit.

Display icon	Meaning
☐	Within range of a base unit <ul style="list-style-type: none"> When flashing: Handset is searching for base unit. (out of range of base unit, handset is not registered to base unit, no power on base unit)
⋈	Handset is accessing base unit. (intercom, paging, changing base unit settings, etc.)
☎	Handset is on an outside call.
⚡	Call bar is on. (page 19)
▢▢▢	Battery strength
[VE]	Voice enhancer is set to high or low tone. (page 12)
[N]	Night mode is on. (page 18)
[X]	Key lock is on. (page 12)
[2]	Handset number: The left icon shows handset 2 example. (page 18)
✉	New voice mail message received (voice mail users only; page 27)
[IN USE]	Line is being used by another handset.

Connections

When the AC adaptor is connected, a short beep will be heard. If it is not heard, check the connections.



Important:

- Use only the AC adaptor and telephone line cord supplied with this unit.

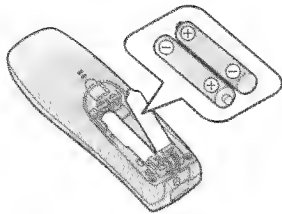
Note:

- After connection, you must charge the batteries to make or answer calls (page 8).
- Never install telephone wiring during a lightning storm.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceiling-mounted AC outlet, as the weight

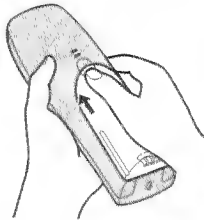
of the adaptor may cause it to become disconnected.

Battery installation

- 1 Insert the batteries negative (⊖) terminal first.



- 2 Close the handset cover.



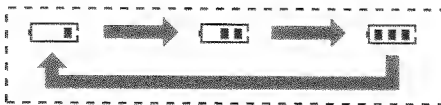
Note:

- Use only rechargeable batteries (page 4).

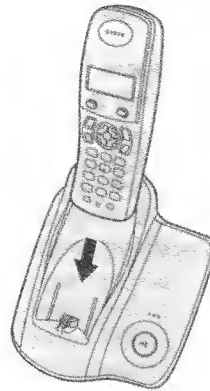
Battery charge

Place the handset on the base unit for about 7 hours before initial use.

When charging, the battery icon is shown as follows.



When the batteries are fully charged, remains on the display.



Note:

- It is normal for the handset to feel warm during charging.
- It takes 7 hours to fully charge the batteries, however, you can use the handset before the batteries are fully charged.
- Clean the charge contacts (page 6) of the handset and base unit with a soft, dry cloth once a month, otherwise the batteries may not charge properly. Clean more often if the unit is exposed to grease, dust or high humidity.

Battery strength

Battery icon	Battery strength
	High
	Medium
	Low When flashing: Needs to be charged.

Note:

- When flashes, recharge the handset batteries. will continue to flash until the batteries have been charged for at least 15 minutes.

- If the handset is turned off, it will be turned on automatically when it is placed on the base unit.

Battery life

After your Panasonic batteries are fully charged, you can expect the following performance:

Ni-MH batteries (700 mAh)

Operation	Operating time
While in use (talking)	20 hours max.
While not in use (standby)	170 hours max.

Note:

- Actual battery performance depends on a combination of how often the handset is in use (talking) and how often it is not in use (standby).
- Battery operating time may be shortened over time depending on usage conditions and ambient temperature.

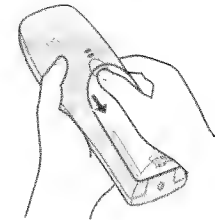
Battery replacement

If flashes even after the handset batteries have been charged for 7 hours, the batteries must be replaced.

Important:

- We recommend the use of Panasonic rechargeable batteries noted on page 4. If you install non-rechargeable batteries and start charging, the batteries may leak electrolyte.
- Do not mix old and new batteries.

- 1 Press the notch on the handset cover firmly and slide it in the direction of the arrow.



- 2 Remove the old batteries positive (⊕) terminal first and install the new ones. See page 8 for battery installation.

Turning the power on/off

Power on

Press **[]** for about 1 second.

- The display will change to the standby mode.

Power off

Press **[]** for about 2 seconds.

- The display will go blank.

Setting dialling mode (tone/pulse)

Change the dialling mode depending on your telephone line service.

“**Tone**”: Select when you have a touch tone service.

“**Pulse**”: Select when you have rotary or pulse service.

- 1 Press **[/OK]**.
- 2 Select “**Base Unit Setup**”, then press **[▶]**.
- 3 Enter “0000” (default base unit PIN).

- If you changed the PIN, enter it (page 24).

- 4 Select "Call Options", then press [▶].
- 5 Select "Dial Mode", then press [▶].
- 6 Select the desired setting, then press [▶].
- 7 Press [⏏].

Setting the date and time

Important:

- Confirm that the AC adaptor is connected.
- Ensure that ⏏ is not flashing.

- 1 Press [⏏/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Set Date & Time", then press [▶].
- 4 Enter the current day, month and year by selecting 2 digits for each.
Example: 17 May, 2005
Press [1][7][0][5][0][5].
- 5 Enter the current hour and minute by selecting 2 digits for each.
• You can select "AM", "PM" or 24-hour time entry by pressing [*] repeatedly.

Example: 3:30 PM

Press [0][3][3][0], then press [*] repeatedly until "03:30 PM" is displayed.

- 6 Press [⏏/OK].
- 7 Press [⏏].

Note:

- To correct a digit, press [◀] or [▶] to move the cursor, then make the correction.
- The date and time may be incorrect after a power failure. In this case, set the date and time again.

Making calls

- 1 Lift the handset and dial the phone number.
• To correct a digit, press [C/⏏], then enter the correct number.
- 2 Press [⏏].
- 3 When finished talking, press [⏏] or place the handset on the base unit.

To adjust the receiver volume

Press [▲] or [▼] while talking. 4 volume levels are available for the receiver.

Redial feature

Previously dialled phone numbers (each 24 digits max.) can be redialled.

To redial the last number dialled

Press [☎], then press [⏏].

Note:

- You can also press [⏏] before pressing [☎].

To make a call using the redial list

The last 10 phone numbers dialled are stored in the redial list.

- 1 Press [☎].
• The last number dialled will be displayed.
- 2 Press [▲] or [▼] repeatedly to select the desired number.
• To exit the list, press [⏏].
- 3 Press [⏏].

To edit a number in the redial list before calling it

- 1 Press [☎].
- 2 Press [▲] or [▼] repeatedly to select the desired number, then press [⏏/OK].

- 3 Select "Edit and Call", then press [▶].
- 4 Press [◀] or [▶] to move the cursor, then edit the number.
• Place the cursor on the number you wish to erase, then press [C/⏏].
• Place the cursor to the right of where you want to insert a number, then press the appropriate dial key.
- 5 Press [⏏].

To erase numbers in the redial list

- 1 Press [☎].
- 2 Press [▲] or [▼] repeatedly to select the desired number, then press [⏏/OK].
- 3 Select "Erase", then press [▶].
• If you want to erase all numbers in the list, select "Erase All", then press [▶].
- 4 Select "Yes", then press [▶].
- 5 Press [⏏].

To store a number from the redial list into the phonebook

- 1 Press [☎].
- 2 Press [▲] or [▼] repeatedly to select the desired number, then press [⏏/OK].
- 3 Select "Add Phonebook", then press [▶].
- 4 Enter a name (16 characters max.; see page 32 for character entry), then press [⏏/OK].
- 5 Edit the phone number if necessary, then press [⏏/OK].
- 6 Select "Save", then press [▶].
- 7 Press [⏏].

Other features

Voice enhancer

You can change the tone quality of the receiver while you are on a call. 3 settings are available.

- 1 Press [📞/OK] during a call.
- 2 Select the desired setting, then press [▶].

Note:

- If you select "High Tone" or "Low Tone", "[VE]" is displayed.

Mute

You can mute your voice during a conversation. While mute is turned on, you will be able to hear the other party, but the other party will not be able to hear you.

- 1 To mute your voice, press [C/📞].
- 2 To return to the conversation, press [C/📞] again.

Key lock

The handset can be locked so that no calls or settings can be made. Incoming calls can be answered, but all other functions are disabled while key lock is on.

To turn key lock on, press [📞/OK] for about 2 seconds.

- "[x]" is displayed.
- To turn key lock off, press [📞/OK] for about 2 seconds.

Note:

- Calls to emergency numbers (page 23) cannot be made until key lock is turned off.
- Key lock is turned off when the handset is turned off.

R button (to use the flash feature)

[R] is used to access optional telephone services. Contact your service provider for details.

Note:

- If your unit is connected to a PBX (private branch exchange), pressing [R] can allow you to access certain features of your host PBX such as transferring an extension call. Consult your PBX dealer for details.
- You can change the flash time (page 23).

Pause button (for PBX/long distance service users)

A pause is sometimes required when making calls using a PBX or long distance service.

Example: If you have to dial [0] before dialling outside numbers manually, you will probably pause after dialling [0] until you hear a dial tone.

- 1 Press [0].
- 2 Press [⏸].
- 3 Dial the phone number, then press [📞].

Note:

- Pressing [⏸] 1 time creates 1 pause. Press [⏸] repeatedly to create longer pauses. To change pause length, see page 23.

Temporary tone dialling (for rotary or pulse service users)

You can temporarily switch the dialling mode to tone when you need to access touch tone services (e.g., telephone banking services).

- 1 Make a call.
- 2 Press [*] when prompted to enter your code or PIN, then press the appropriate dial keys.

Note:

- The dialling mode will return to pulse when you hang up.

Answering calls

- 1 Lift the handset and press [📞] when the unit rings.
 - You can also answer a call by pressing any dial key from [0] to [9], [*], [#], or [INT]. (Any key answer feature)
- 2 When finished talking, press [📞] or place the handset on the base unit.

Auto talk feature

You can answer calls simply by lifting the handset off the base unit. You do not need to press [📞]. To turn this feature on, see page 19.

To adjust the ringer volume when an outside call comes in

Press [▲] or [▼] when an outside call comes in.

Note:

- The ringer volume cannot be adjusted if the handset is on the base unit.

Other features

Handset locator

Using this feature, you can locate the handset if it has been misplaced.

- 1 Press [📞] on the base unit.
 - The base unit will page the handset for about 1 minute.
- 2 To stop paging, press [📞] on the base unit or press [📞] on the handset.

Using the phonebook

The phonebook allows you to make calls without having to dial manually. You can add 20 names and phone numbers to the phonebook and search for phonebook entries by name.

Adding entries to the phonebook

- 1 Press [□], then press [☐/OK].
- 2 Select "New Entry", then press [▶].
- 3 Enter the party's name (16 characters max.; see page 32 for character entry), then press [☐/OK].
- 4 Enter the party's phone number (24 digits max.), then press [☐/OK].
- 5 Select "Save", then press [▶].
- 6 Press [✕⓪].

Note:

- If there is no space to store new entries, "Memory Full" will be displayed. Erase unnecessary entries (page 14).

To edit/correct a mistake

Press [◀] or [▶] to place the cursor on the number or character you wish to erase, then press [C/✕]. Place the cursor to the right of where you want to insert a number or character, then press the appropriate dial key.

Note:

- Press and hold [C/✕] to erase all numbers or characters.

Finding and calling a phonebook entry

Phonebook entries can be searched for by scrolling through all phonebook entries. Once you have found the desired entry, press [↶] to dial the phone number.

Scrolling through all entries

- 1 Press [□].
- 2 Press [▲] or [▼] repeatedly to display the desired entry.

Editing entries in the phonebook

Phonebook entries can be edited after you have saved them. You can change the name and phone number.

Changing a name and phone number

- 1 Find the desired entry (page 14), then press [☐/OK].
- 2 Select "Edit", then press [▶].
- 3 Edit the name if necessary (16 characters max.; see page 32 for character entry), then press [☐/OK].
- 4 Edit the phone number if necessary (24 digits max.), then press [☐/OK].
- 5 Select "Save", then press [▶].
- 6 Press [✕⓪].

Erasing entries from the phonebook

Erasing an entry

- 1 Find the desired entry (page 14), then press [☐/OK].
- 2 Select "Erase", then press [▶].
- 3 Select "Yes", then press [▶].
- 4 Press [✕⓪].

Erasing all entries

- 1 Press [□], then press [☐/OK].
- 2 Select "Erase All", then press [▶].
- 3 Select "Yes", then press [▶].
- 4 Select "Yes" again, then press [▶].
- 5 Press [✕⓪].

Chain dial

This feature allows you to dial phone numbers in the phonebook while you are on a call. This feature can be used, for example, to dial a calling card access number or bank account PIN that you have stored in the phonebook, without having to dial manually.

- 1 While on a call, press [□].
- 2 Press [▲] or [▼] repeatedly to select the desired entry.
- 3 Press [▶] to dial the number.

Guide to handset settings

For your reference, a chart of all items which can be customised for the handset is printed below.

- When customising the handset, the current item or setting is indicated by ►.

Handset settings menu	Sub-menu	Sub-menu 2	Default setting	Page
Set Date & Time	—		—	page 10
Ringer Setup	Ringer Volume		Maximum	page 17
	Ext. Ringtone		Ringtone 1	page 17
	Int. Ringtone		Ringtone 1	page 17
	Night Mode	Start/End	23:00/06:00	page 17
		On/Off	Off	page 17
		Ring Delay	60 sec.	page 18
Display Setup	Standby Display		Off	page 18
	Contrast		Level 3	page 18
Call Options	Call Bar		Off	page 18
	Auto Talk		Off	page 19
Registration	Register H.set		—	page 28
Other Options	Handset PIN		0000	page 19
	Keytones		On	page 19
	Reset Handset		—	page 19

Note:

- Up to 3 menu items can be displayed at a time. To select a menu item not shown on the current page, scroll up or down by pressing the navigator key, [▲] or [▼], respectively.

Ringer setup

Ringer volume

- 1 Press [■/OK].
- 2 Select "Handset Setup", then press [►].
- 3 Select "Ringer Setup", then press [►].
- 4 Select "Ringer Volume", then press [►].
- 5 Press [▲] or [▼] repeatedly to select the desired volume.
- 6 Press [►].
- 7 Press [✕⓪].

Note:

- The handset will ring for intercom calls and when paged even if the ringer is turned off.

Changing ringtones

You can change the ringtone used by the handset.

"Ext. Ringtone": Selects the ringtone for outside calls.

"Int. Ringtone": Selects the ringtone for intercom calls.

- 1 Press [■/OK].
- 2 Select "Handset Setup", then press [►].
- 3 Select "Ringer Setup", then press [►].
- 4 Select the desired item, then press [►].
- 5 Select the desired ringtone, then press [►].
- 6 Press [✕⓪].

Night mode

Night mode allows you to select a block of time during which the handset will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping. Night mode can be set independently for the handset and the base unit (page 22).

Set the date and time beforehand (page 10).

Setting the start and end time for night mode

- 1 Press [■/OK].
- 2 Select "Handset Setup", then press [►].
- 3 Select "Ringer Setup", then press [►].
- 4 Select "Night Mode", then press [►].
- 5 Select "Start/End", then press [►].
- 6 Enter the desired hour and minute you wish to start this feature by selecting 2 digits for each.
 - If you use 12-hour time entry, select "AM" or "PM" by pressing [✕] repeatedly before entering the time.
- 7 Enter the desired hour and minute you wish to end this feature by selecting 2 digits for each.
 - If you use 12-hour time entry, select "AM" or "PM" by pressing [✕] repeatedly before entering the time.
- 8 Press [■/OK].
- 9 Press [✕⓪].

Turning night mode on/off

- 1 Press [■/OK].
- 2 Select "Handset Setup", then press [►].
- 3 Select "Ringer Setup", then press [►].

- 4 Select "Night Mode", then press [▶].
- 5 Select "On/Off", then press [▶].
- 6 Select "On" or "Off", then press [▶].
- 7 Press [✕⓪].

Note:

- When the night mode is turned on, "[N]" is displayed.

Setting the ring delay for night mode

This setting allows the handset to ring during night mode if the caller waits long enough. After the selected amount of time passes, the handset will ring, useful when someone urgently needs to speak with you. If you select "No Ringing", the handset will not ring during night mode.

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Ringer Setup", then press [▶].
- 4 Select "Night Mode", then press [▶].
- 5 Select "Ring Delay", then press [▶].
- 6 Select the desired setting, then press [▶].
- 7 Press [✕⓪].

Display setup**Selecting the standby mode display**

"Handset Number": The current handset number is displayed.

"Off": Only the current date and time are displayed.

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Display Setup", then press [▶].

- 4 Select "Standby Display", then press [▶].
- 5 Select the desired setting, then press [▶].
- 6 Press [✕⓪].

Note:

- If "Handset Number" is selected and the current handset number is 2, "[2]" is displayed.

Changing the display contrast

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Display Setup", then press [▶].
- 4 Select "Contrast", then press [▶].
- 5 Press [▲] or [▼] repeatedly to select the desired contrast, then press [▶].
- 6 Press [✕⓪].

Call options**Turning call bar on/off**

This feature prohibits making outside calls. When call bar is turned on, only intercom calls and calls to emergency numbers (page 23) can be made.

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Call Options", then press [▶].
- 4 Select "Call Bar", then press [▶].
- 5 Enter "0000" (default handset PIN).
 - If you changed the PIN, enter it (page 19).
- 6 Select "On" or "Off", then press [▶].

- 7 Press [✕⓪].

Note:

- When call bar is turned on, ☒ is displayed.

Turning auto talk on/off

When this feature is turned on, you can answer calls simply by lifting the handset off the base unit. You do not need to press [↶].

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Call Options", then press [▶].
- 4 Select "Auto Talk", then press [▶].
- 5 Select "On" or "Off", then press [▶].
- 6 Press [✕⓪].

Other options**Changing the handset PIN (Personal Identification Number)**

For security, the handset PIN must be entered when changing certain settings. The default PIN is "0000".

Important:

- If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Other Options", then press [▶].
- 4 Select "Handset PIN", then press [▶].

- 5 Enter the current 4-digit handset PIN.
- 6 Enter the new 4-digit handset PIN, then press [Ⓜ/OK].
- 7 Press [✕⓪].

Turning keytones on/off

Keytones are tones heard when keys are pressed. Includes confirmation tones and error tones.

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Other Options", then press [▶].
- 4 Select "Keytones", then press [▶].
- 5 Select "On" or "Off", then press [▶].
- 6 Press [✕⓪].

Note:

- If keytones are turned off, error tones will not sound when you enter the wrong PIN or when memory is full.

Resetting the handset to its default settings

- 1 Press [Ⓜ/OK].
- 2 Select "Handset Setup", then press [▶].
- 3 Select "Other Options", then press [▶].
- 4 Select "Reset Handset", then press [▶].
- 5 Enter "0000" (default handset PIN).
 - If you changed the PIN, enter it (page 19).
- 6 Select "Yes", then press [▶].
- 7 Press [✕⓪].

Note:

- The following items will be deleted or reset to their default settings:

- Settings listed on page 16
- Redial list
- Voice enhancer
- The following items will be retained:
 - Phonebook entries
 - Date and time

Guide to base unit settings

For your reference, a chart of all items which can be customised for the base unit is printed below.

- When customising the base unit, the current item or setting is indicated by ►.

Base unit settings menu	Sub-menu	Sub-menu 2	Default setting	Page
Ringer Setup	Ringer Volume		Medium	page 22
	Night Mode	Start/End	23:00/06:00	page 22
		On/Off	Off	page 22
		Ring Delay	60 sec.	page 22
Call Options	Dial Mode		Tone	page 9
	Recall		400 msec.	page 23
	Pause Length		3 sec.	page 23
	Emergency No.		999	page 23
	Call Restrict		—	page 23
Other Options	Base Unit PIN		0000	page 24
	Repeater Mode		Off	page 29
	Reset Base		—	page 24

Note:

- Up to 3 menu items can be displayed at a time. To select a menu item not shown on the current page, scroll up or down by pressing the navigator key, [▲] or [▼], respectively.

Ringer setup

Ringer volume

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Ringer Setup", then press [F2].
- 5 Select "Ringer Volume", then press [F2].
- 6 Press [▲] or [▼] repeatedly to select the desired volume.
- 7 Press [F2].
- 8 Press [F4].

Night mode

Night mode allows you to select a block of time during which the base unit will not ring for outside calls. This feature is useful for times when you do not want to be disturbed, for example, while sleeping. Night mode can be set independently for the handset (page 17) and the base unit. Set the date and time beforehand (page 10).

Setting the start and end time for night mode

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Ringer Setup", then press [F2].
- 5 Select "Night Mode", then press [F2].

- 6 Select "Start/End", then press [F2].
- 7 Enter the desired hour and minute you wish to start this feature by selecting 2 digits for each.
 - If you use 12-hour time entry, select "AM" or "PM" by pressing [F3] repeatedly before entering the time.
- 8 Enter the desired hour and minute you wish to end this feature by selecting 2 digits for each.
 - If you use 12-hour time entry, select "AM" or "PM" by pressing [F3] repeatedly before entering the time.
- 9 Press [F1/OK].
- 10 Press [F4].

Turning night mode on/off

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Ringer Setup", then press [F2].
- 5 Select "Night Mode", then press [F2].
- 6 Select "On/Off", then press [F2].
- 7 Select "On" or "Off", then press [F2].
- 8 Press [F4].

Setting the ring delay for night mode

This setting allows the base unit to ring during night mode if the caller waits long enough. After the selected amount of time passes, the base unit will ring, useful when someone urgently needs to speak with you. If you select "No Ringing", the base unit will not ring during night mode.

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].

- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Ringer Setup", then press [F2].
- 5 Select "Night Mode", then press [F2].
- 6 Select "Ring Delay", then press [F2].
- 7 Select the desired setting, then press [F2].
- 8 Press [F4].

Call options

Changing the flash time

Change the flash time, if necessary, depending on the requirements of your service provider or PBX.

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Call Options", then press [F2].
- 5 Select "Recall", then press [F2].
- 6 Select the desired setting, then press [F2].
- 7 Press [F4].

Setting pause length

Change the pause length, if necessary, depending on the requirements of your service provider or PBX.

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).

- If you changed the PIN, enter it (page 24).
- 4 Select "Call Options", then press [F2].
 - 5 Select "Pause Length", then press [F2].
 - 6 Select the desired setting, then press [F2].
 - 7 Press [F4].

Storing/changing emergency numbers

These settings determine which phone numbers can be dialed while the call bar feature is on (page 18).

- 1 Press [F1/OK].
- 2 Select "Base Unit Setup", then press [F2].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Call Options", then press [F2].
- 5 Select "Emergency No.", then press [F2].
- 6 Select a memory location, then press [F2].
 - If the memory location already contains an emergency number, the number is displayed.
- 7 Enter/edit the number, then press [F1/OK].
 - To erase an emergency number, press and hold [C/ⓧ].
- 8 Press [F4].

Setting call restriction

You can restrict selected handsets from dialling certain numbers. You can assign up to 6 phone numbers to be restricted, and select which handsets will be restricted.

Storing area codes here will prevent the restricted handsets from dialling any phone number in that area code. If a restricted number is dialled, the call will not be connected and the restricted number will flash on the display.

- 1 Press [OK].
- 2 Select "Base Unit Setup", then press [▶].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Call Options", then press [▶].
- 5 Select "Call Restrict", then press [▶].
- 6 Set which handsets will be restricted by pressing the desired handset number.
 - All the registered handset numbers will be displayed.
 - Flashing numbers indicate call restriction is turned on for the corresponding handset.
 - To turn call restriction off for a handset, press the number again. The number will stop flashing.
- 7 Press [OK].
- 8 Select a memory location, then press [▶].
 - If the memory location already contains a restricted number, the number is displayed.
- 9 Enter the phone number or area code to be restricted (8 digits max.), then press [OK].
 - To erase a restricted number, press [C/⌫].
- 10 Press [X⓪].

Other options

Changing the base unit PIN (Personal Identification Number)

For security, the base unit PIN must be entered when changing certain settings. The default PIN is "0000".

Important:

- If you change the PIN, please make note of your new PIN. The unit will not reveal the PIN to you. If you forget your PIN, consult your nearest Panasonic service centre.

- 1 Press [OK].
- 2 Select "Base Unit Setup", then press [▶].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it.
- 4 Select "Other Options", then press [▶].
- 5 Select "Base Unit PIN", then press [▶].
- 6 Enter the new 4-digit base unit PIN, then press [OK].
- 7 Press [X⓪].

Resetting the base unit to its default settings

- 1 Press [OK].
- 2 Select "Base Unit Setup", then press [▶].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Other Options", then press [▶].
- 5 Select "Reset Base", then press [▶].
- 6 Select "Yes", then press [▶].

- 7 Press [X⓪].

Note:

- The following items will be deleted or reset to their default settings:
 - Settings listed on page 21
 - Caller list
- The following items will be retained:
 - Date and time
 - Repeater mode

Using Caller ID service

Important:

- This unit is Caller ID compatible. To use Caller ID features (such as displaying caller phone numbers), you must subscribe to Caller ID service. Consult your service provider for details.

Caller ID features

When an outside call is received, the caller's phone number can be displayed.

- Phone numbers of the last 50 different callers will be logged in the caller list.
- When caller information is received and it matches a phone number stored in the unit's phonebook:
 - The stored name will be displayed and logged in the caller list.
- If the unit is connected to a PBX system, you may not receive the caller information.
- When the caller dialed from an area which does not provide Caller ID service, "Out of Area" will be displayed.
- When the caller requested not to send caller information, either no information or "Private Caller" will be displayed.

Missed calls

If a call is not answered, the unit treats the call as a missed call. The number of missed calls is shown on the display. This lets you know if you should view the caller list to see who called while you were out.

Call Waiting Caller ID

This is a service of your service provider and will only operate if you have subscribed to this service. When you hear a call waiting tone during a conversation, the display will show the second caller's information. You can answer the second call, keeping the first call on hold. Consult your service provider for details of this service.

Caller list

Viewing the caller list and calling back

Phone numbers of the last 50 different callers will be logged in the caller list. When the 51st call is received, the oldest caller information will be automatically erased.

You can use this list to return missed calls.

- 1 Press [OK].
- 2 Select "Caller List", then press [▶].
 - The most recent call is displayed.
- 3 Press [▼] repeatedly to search from the most recent call, or press [▲] repeatedly to search from the oldest call.
 - If the item has already been viewed or answered, "✓" is displayed, even if it was viewed or answered using another handset.
- 4 Press [↶] to call back the displayed party.

Editing a caller's phone number before calling back

- 1 Press [OK].
- 2 Select "Caller List", then press [▶].
- 3 Press [▲] or [▼] repeatedly to display the desired entry.
- 4 To add a number
 - Press the dial key ([0] to [9]).
 - The number you pressed is added to the top of the current number.

To erase a number

Press [OK], select "Edit and Call", then press [▶]. Press [◀] or [▶] to place the cursor on the number you wish to erase, then press [C/✕].

- 5 Press [↶].

Erasing caller information

- 1 Press [OK].
- 2 Select "Caller List", then press [▶].
- 3 Press [▲] or [▼] repeatedly to display the desired entry, then press [OK].
- 4 Select "Erase", then press [▶].
 - To erase all entries, select "Erase All", then press [▶].
- 5 Select "Yes", then press [▶].
- 6 Press [X/0].

Storing caller information into the phonebook

- 1 Press [OK].
- 2 Select "Caller List", then press [▶].
- 3 Press [▲] or [▼] repeatedly to display the desired entry, then press [OK].
- 4 Select "Add Phonebook", then press [▶].
- 5 Continue from step 3, "Adding entries to the phonebook", page 14.

Voice mail service

Voice mail is an automatic answering service offered by your service provider. If you subscribe to this service, your service provider's voice mail system can answer calls for you when you are unavailable to answer the phone or when your line is busy. Messages are recorded by the service provider, not your telephone. When you have new messages, ☒ will be displayed on the handset. Please consult your service provider for details of this service.

Note:

- If ☒ still remains on the display even after you have listened to new messages, turn it off by pressing and holding [C/✕] for 2 seconds.

Operating additional units

Additional handsets

Up to 6 handsets can be registered to a single base unit. Additional handsets will give you the freedom to, for example, have an intercom call with another handset while a third handset is on an outside call. See page 4 for information on ordering additional handsets.

Important:

- The additional handset model recommended for use with this unit is noted on page 4. If other model handset is used, certain operations (handset settings, base unit settings, etc.) may not be available.
- The included handset can be registered to only 1 base unit. You can use additional handsets with this base unit, but you cannot use the included handset with another base unit unless you first cancel the base unit from the included handset's memory.

Registering a handset to a base unit

To register an additional handset to a base unit (easy registration)

The included handset and base unit are preregistered. After purchasing an additional handset, register it to the base unit. Ensure that the additional handset is switched on. If it is not on, press and hold **[X⓪]** for few seconds to turn the handset on.

- 1 Lift the additional handset and press **[X⓪]** to put the handset in standby mode.

- 2 Press and hold **[••)]** on the base unit for about 3 seconds, until the registration tone sounds.
- 3 Place the additional handset on the base unit. The registration tone continues to sound. With the handset still on the base unit, wait until a confirmation tone sounds and **Y** stops flashing.

Note:

- If an error tone sounds, or if **Y** is still flashing, register the handset manually (manual registration; page 28).
- If all registered handsets start ringing in step 2, press **[••)]** to stop. Start again from step 1.
- Charge the batteries of your additional handset for about 7 hours before initial use.

Manual registration

You can register a handset to a base unit manually using the following method.

- 1 Press **[⓪/OK]**.
- 2 Select "Handset Setup", then press **[▶]**.
- 3 Select "Registration", then press **[▶]** 2 times.
 - If "Memory Full" is displayed, the handset is already registered to a base unit. You can cancel the base unit from the handset's memory if necessary (page 29).
- 4 Press and hold **[••)]** on the base unit for about 3 seconds, until the registration tone sounds.
 - If all registered handsets start ringing, press **[••)]** to stop, then repeat this step.
 - After pressing **[••)]**, the rest of this procedure must be completed within 1 minute.

- 5 Wait until "Enter Base PIN" is displayed, then enter "0000" (default base unit PIN), then press **[⓪/OK]**.
 - If you changed the PIN, enter it (page 24).
 - When the handset has been registered successfully, **Y** will stop flashing. If keytones are turned on (page 19), a confirmation tone will be heard.

Cancelling a handset

A maximum of 6 handsets can be registered to a base unit. A handset can cancel its own registration (or the registration of another handset) that is stored in the base unit. This will allow the base unit to "forget" the handset.

- 1 Press **[⓪/OK]**.
- 2 Select "Base Unit Setup", then press **[▶]**.
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Enter "335".
- 5 Select "Cancel Handset", then press **[▶]**.
 - The numbers of all handsets registered to the base unit are displayed.
- 6 Select the handset(s) you want to cancel, by pressing the desired handset number.
 - The selected handset number(s) will flash.
 - To cancel a selected handset number, press the number again. The number will stop flashing.
- 7 Press **[⓪/OK]**.
- 8 Select "Yes", then press **[▶]**.
- 9 Press **[X⓪]**.

Cancelling a base unit

A handset can cancel a base unit that it is registered to. This allows the handset to "forget" the base unit.

- 1 Press **[⓪/OK]**.
- 2 Select "Handset Setup", then press **[▶]**.
- 3 Select "Registration", then press **[▶]**.
- 4 Enter "335".
- 5 Select "Cancel Base", then press **[▶]**.
- 6 Enter "0000" (default handset PIN).
 - If you changed the PIN, enter it (page 19).
- 7 Select "Yes", then press **[▶]**.
- 8 Press **[X⓪]**.

Note:

- If you cancel the base unit from the handset's memory, you cannot use the handset to make calls or perform other operations. To use the handset again, you must first register it to a base unit (page 28).

Increasing the range of the base unit

You can increase the range of the base unit by using a DECT repeater. Please use only the Panasonic DECT repeater noted on page 4. Consult your Panasonic dealer for details.

Important:

- Before registering the repeater to this base unit, you must turn the repeater mode on.

Turning the repeater mode on/off

- 1 Press **[⓪/OK]**.

- 2 Select "Base Unit Setup", then press [▶].
- 3 Enter "0000" (default base unit PIN).
 - If you changed the PIN, enter it (page 24).
- 4 Select "Other Options", then press [▶].
- 5 Select "Repeater Mode", then press [▶].
- 6 Select "On" or "Off", then press [▶].
- 7 Press [✕⓪].

Note:

- After turning repeater mode on/off, you will not be able to make or receive calls for a few moments.

Intercom between handsets

Intercom calls can be made between handsets in the same radio cell, but not between handsets in different radio cells.

Example: When handset 1 calls handset 2

- 1 **Handset 1:**
Press [INT] and [2] (desired handset number).
- 2 **Handset 2:**
Press [↶] to answer.
- 3 When finished talking, press [✕⓪].

Transferring calls between handsets

Outside calls can be transferred between 2 handsets in the same radio cell.

Example: When handset 1 transfers a call to handset 2

- 1 **Handset 1:**

During an outside call, press [INT] and [2] (desired handset number).

- The outside call will be put on hold.
- If there is no answer, press [INT] to return to the outside call.

- 2 **Handset 2:**

Press [↶] to answer the page.

- Handset 2 can talk with handset 1.

- 3 **Handset 1:**

To complete the call transfer, press [✕⓪].

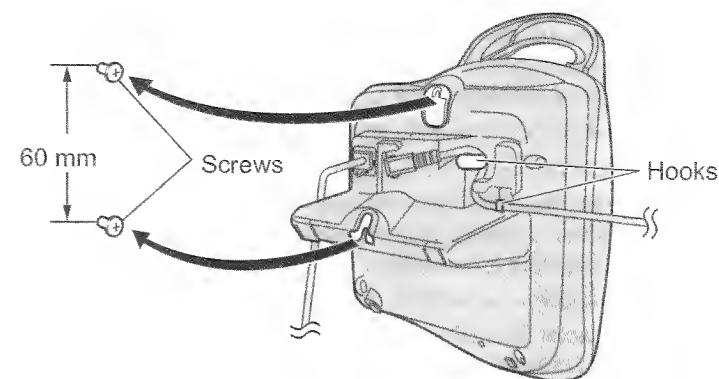
Transferring a call without speaking to the other handset user

- 1 During an outside call, press [INT], then press the desired handset number.
 - The other handset rings if it is within range of the base unit and turned on.
- 2 Press [✕⓪].
 - The outside call rings at the other handset.

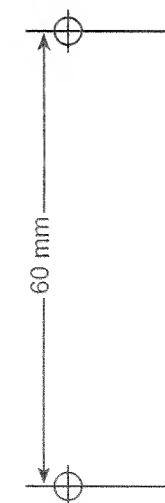
Note:

- [↶] flashes to indicate the outside call is on hold.
- If the other handset user does not answer the call within 1 minute, the call will ring at your handset again.

Wall mounting

**Note:**

- Make sure the screws are securely fastened to the wall.
- Do not pinch the telephone line cord and AC adaptor cord between the base unit and the wall.
- Use the following wall template to position the screws before drilling.



Available character entries

The dial keys are used to enter characters and numbers. Each dial key has multiple characters assigned to it. The available character entry modes are, Alphabet, Numeric, Greek, Extended 1, Extended 2, and Cyrillic. When in Alphabet (ABC), Greek (ABΓ), Extended 1 (AĂÄ), Extended 2 (ŠŠŠ), or Cyrillic (АБВ) character entry modes, you can select which character is entered by pressing a dial key repeatedly.

- When the unit displays the character entry screen:
 - Press [◀] or [▶] to move the cursor.
 - Press dial keys to enter characters and numbers.
 - Press [C/ⓧ] to erase the character or number highlighted by the cursor. Press and hold [C/ⓧ] to erase all characters or numbers.
 - Press [✕] to switch between uppercase and lowercase.
 - To enter another character located on the same dial key, press [▶] to move the cursor to the next space, then press the appropriate dial key.

Character entry modes

Several character entry modes are available. When the unit displays the character entry screen, press **[□□]**, then select a character entry mode, and press **[▶]**. The default mode is Alphabet.

Alphabet character table (ABC)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' () * , - . / 1	A B C 2 a b c 2	D E F 3 d e f 3	G H I 4 g h i 4	J K L 5 j k l 5	M N O 6 m n o 6	P Q R S 7 p q r s 7	T U V 8 t u v 8	W X Y Z 9 w x y z 9

Numeric entry table (0-9)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
0	1	2	3	4	5	6	7	8	9

Greek character table (ΑΒΓ)

0	1	ABC2	DEF3	GHI4	JKL5	MNO6	PQRS7	TUV8	WXYZ9
Space 0	Space # & ' () * , - . / 1	A B Γ 2	Δ E Z 3	H Θ I 4	K Λ M 5	N Ξ O 6	Π Ρ Σ 7	Τ Υ Φ 8	Χ Ψ Ω Ξ 9

Extended 1 character table (AÄÄ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0	Space # & ' () * , - . / 1	A Ä Å Â Ã Ä Å Æ B C Ç 2	D E È Ê Ë Ì Ï Î Ï 3 4	G Ğ H I Î Ï 4	J K L 5	M N Ñ O Ò Ó Ô Õ Ö ø 6	P Q R S Ş 7	T U Û Ü Ü Ü Û V 8	W Ŵ X Y ŷ Z 9
		a à â á â ã ä å æ b c ç 2	d e è é ê ë ë f 3	g ğ h i î ï ï 4	j k l 5	m n ñ o ò ó ô õ ö ø 6	p q r s ş 7	t u û ü ü ü û v 8	w ŵ x y ŷ z 9

- The following are used for both uppercase and lowercase:

ø S W y

Extended 2 character table (SŠŠ)

0	1	ABC2	DEF3	GHI4	JKL5	MNO6	PQRS7	TUV8	WXYZ9
Space 0	Space # & ' () * , - . / 1	A Á Ä À Á Â Ĉ Ĉ 2	D Ď Ě Ď Ě Ě F 3	G H I Í 4	J K L Ĺ Ĺ Ĺ 5	M N Ń Ń Ń Ń Ö Ö 6	P Q R Ŕ Ŕ Š Š Š 7	T Ť U Ú Ů Ů ů V 8	W X Y ŷ Ý Ž Ž Ž Ž 9
		a á ä À Á Â Ĉ Ĉ 2	d ě e Ď Ě Ě f 3	g h i í 4	j k l ĺ Ĺ Ĺ 5	m n Ń Ń Ń Ń ö ö 6	p q r Ŕ Ŕ š š š 7	t ť u ú ú ů ů v 8	w x y ŷ ý ž ž ž ž 9

- The following are used for both uppercase and lowercase:

A Ć Č Ę Ł Ł̇ Ń Ŕ Ś Š ů ŷ Ž Ž Ž

Cyrillic character table (АБВ)

0	1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9
Space 0 Г Е I Й Ъ	Space # & ' () * , - . / 1	А Б В Г 2	Д Е Ж З 3	И Й К Л 4	М Н О П 5	Р С Т У 6	Ф Х Ц Ч 7	Ш Щ Ъ Ъ 8	Ь Э Ю Я 9


Troubleshooting





If you still have difficulties after following the instructions in this section, disconnect the AC adaptor and turn off the handset, then reconnect the AC adaptor and turn on the handset.

Initial settings

Problem	Cause & solution
Y is flashing.	<ul style="list-style-type: none"> • The handset is not registered to the base unit. Register it (page 28). • The handset is too far from the base unit. Move closer. • The AC adaptor is not connected. Check the connections. • You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones.
The handset display is blank.	<ul style="list-style-type: none"> • The handset is not turned on. Turn the power on (page 9).
The handset will not turn on.	<ul style="list-style-type: none"> • Make sure that the batteries are installed correctly (page 8). • Fully charge the batteries (page 8). • Clean the charge contact and charge again (page 8).

Telephone

Problem	Cause & solution
I cannot make or receive calls.	<ul style="list-style-type: none"> • The AC adaptor or telephone line cord is not connected. Check the connections. • If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall socket directly. If the unit operates properly, check the splitter. • Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider. • The dialling mode setting is incorrect. Set to "Tone" or "Pulse" as needed (page 9). • The call bar feature is turned on. Turn it off (page 18). • You dialled a call restricted number (page 23). • The key lock feature is turned on. Turn it off (page 12).
The unit does not ring.	<ul style="list-style-type: none"> • The ringer volume is turned off. Adjust the handset ringer volume (page 17) and the base unit ringer volume (page 22). • The night mode feature is turned on. Turn it off (page 17, 22).
The batteries should be charging but the battery icon does not change.	<ul style="list-style-type: none"> • Clean the charge contact and charge again (page 8). • The AC adaptor is disconnected. Plug in the AC adaptor.
A busy tone is heard when  is pressed.	<ul style="list-style-type: none"> • The handset is too far from the base unit. Move closer and try again. • Another handset is on an outside call. Wait for the other user to complete the call.
Static is heard, sound cuts in and out. Interference from other electrical units.	<ul style="list-style-type: none"> • Locate the handset and the base unit away from other electrical appliances. • Move closer to the base unit. • Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.

Problem	Cause & solution
Noise is heard during a call.	<ul style="list-style-type: none"> You are using the handset or base unit in an area with high electrical interference. Locate the handset and base unit away from interference sources, such as antenna and mobile phones.
The handset stops working while being used.	<ul style="list-style-type: none"> Disconnect the AC adaptor and turn off the handset. Connect the AC adaptor, turn on the handset and try again.
While storing an entry in the phonebook, the handset starts to ring.	<ul style="list-style-type: none"> A call is being received. To answer the call, press . Programming will be cancelled. Start again.
Pressing  does not display/dial the last number dialled.	<ul style="list-style-type: none"> The redialled number was more than 24 digits long. Redial the number manually.
The handset beeps intermittently and/or  flashes.	<ul style="list-style-type: none"> Fully charge the batteries (page 8).
I fully charged the batteries, but  still flashes.	<ul style="list-style-type: none"> Clean the charge contact and charge again (page 8). It is time to replace the batteries (page 9).
Caller information is not displayed.	<ul style="list-style-type: none"> You must subscribe to Caller ID service. Your unit is connected to a telephone line with DSL service. We recommend connecting a filter (contact your DSL service provider) to the telephone line between the base unit and the telephone line jack.
While viewing caller information, the display returns to standby mode.	<ul style="list-style-type: none"> Do not pause for over 1 minute while searching.
I cannot register a handset to a base unit.	<ul style="list-style-type: none"> The included handset can be registered to only 1 base unit and it is already registered to a base unit. Cancel the previous base unit from the handset (page 29) and try registering the handset again. The maximum number of handsets (6) are already registered to the base unit. Cancel unused handset registrations from the base unit (page 29). You entered the wrong PIN number. If you forget your PIN, consult your nearest Panasonic service centre. Locate the handset and the base unit away from other electrical appliances.

Specifications

■ Standard:

DECT (Digital Enhanced Cordless Telecommunications),
GAP (Generic Access Profile)

■ Number of channels:

120 Duplex Channels

■ Frequency range:

1.88 GHz to 1.9 GHz

■ Duplex procedure:

TDMA (Time Division Multiple Access)

■ Channel spacing:

1,728 kHz

■ Bit rate:

1,152 kbit/s

■ Modulation:

GFSK (Gaussian Frequency Shift Keying)

■ RF transmission power:

Approx. 250 mW

■ Power source:

220–240 V, 50 Hz

■ Power consumption, Base unit:

Standby: Approx. 3.5 W

Maximum: Approx. 9.2 W

■ Operating conditions:

5 °C–40 °C, 20 %–80 % relative air humidity (dry)

■ Dimensions:

Base unit: Approx. 111 mm × 121 mm × 123 mm

Handset: Approx. 148 mm × 48 mm × 32 mm

■ Mass (weight):

Base unit: Approx. 200 g

Handset: Approx. 130 g

Note:

- Specifications are subject to change.
- The illustrations used in these operating instructions may differ slightly from the actual product.

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Panasonic

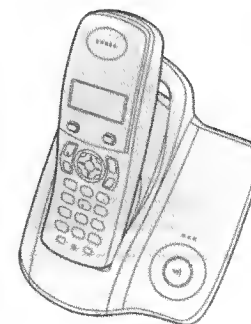
Digital Cordless Phone

Model No. **KX-TCD202HK**

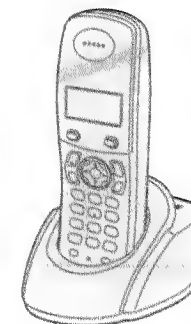
This model includes a base unit with a handset (Model No. KX-TCD200HK) and an additional handset and charger.

The instructions for all units supplied here are contained in the operating instructions for KX-TCD200HK.

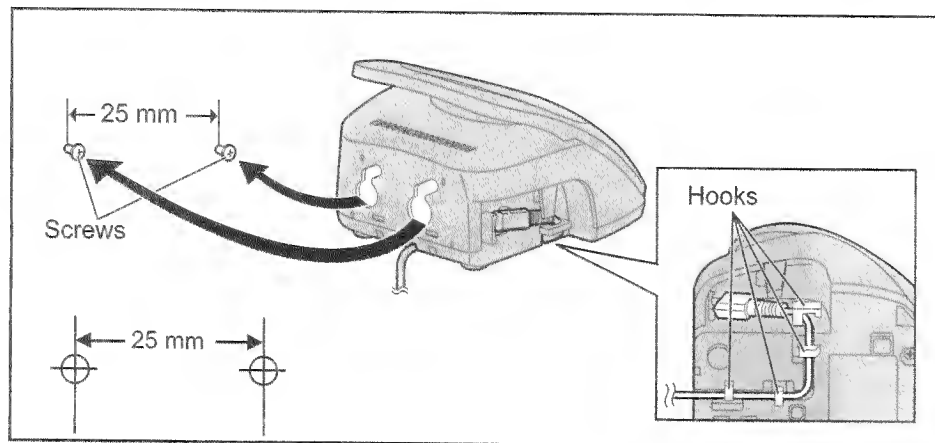
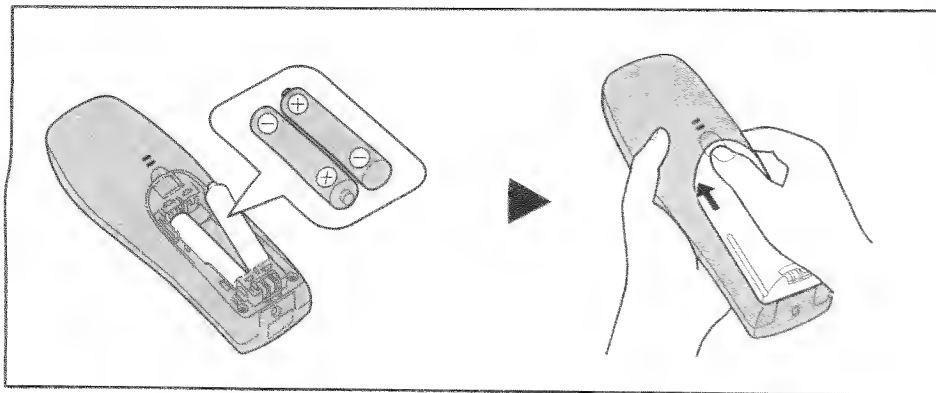
Please read the operating instructions before using these units.

KX-TCD202HK**KX-TCD200HK**

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**Additional handset
and charger****Note:**

- The handsets have been pre-registered for use with the base unit.
- If you want to know the handset number, press **[INT]** on the handset when in standby mode. The number will be shown on the display of the handset.



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